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Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1-109. (Canceled)

110. (Currently Amended) An isolated nucleic acid encoding a polypeptide comprising a heavy chain of an anti-CCR5 antibody or a portion thereof containing three CDR regions, wherein the three CDR regions comprise consecutive amino acids the sequences of which identical to the sequences of CDR regions present in a heavy chain of a monoclonal antibody selected from the group: PA14 produced by the hybridoma designated PA14 (ATCC Accession No. HB-12610), PA8 produced by hybridoma designated PA8 (ATCC Accession No. HB-12605), produced by the hybridoma designated PA9 Accession No. HB-12606), PA10 produced by the hybridoma (ATCC Accession No. HB-12607), designated PA10 produced by the hybridoma designated PA11 (ATCC Accession HB-12608), PA12 and produced by the hvbridoma PA12 (ATCC Accession No. designated HB-12609); wherein the polypeptide in combination with a second polypeptide comprising a light chain of an anti-CCR5 antibody or a portion thereof containing three regions binds to an epitope of CCR5 comprising amino acid residues in (1) an N-terminus of CCR5, (2) one of three extracellular loop regions of CCR5, or (3) a combination of (1) and (2).

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111. (Previously Presented) The nucleic acid of claim 110, wherein the sequences of the three CDR regions are identical to the sequences of CDR regions present in monoclonal antibody PA14; and wherein the epitope of CCR5 comprises amino acid residues in (1) an N-terminus of CCR5, and (2) a second extracellular loop region of CCR5.

112. (Currently Amended) An isolated nucleic acid encoding a polypeptide comprising a light chain of an anti-CCR5 antibody or a portion thereof containing three CDR regions, wherein the three CDR regions comprise consecutive amino acids the sequences of which are identical to the sequences of CDR regions present in a light chain of a monoclonal antibody selected from the group: PA14 produced by the hybridoma designated PA14 (ATCC Accession No. HB-12610), PA8 produced by hybridoma designated PA8 (ATCC Accession No. HB-12605), produced by the hybridoma designated PA9 Accession No. HB-12606), PA10 produced by the hybridoma designated PA10 (ATCC Accession No. HB-12607), produced by the hybridoma designated PA11 (ATCC Accession HB-12608), and PA12 produced by the hybridoma designated PA12 (ATCC Accession No. HB-12609); wherein the polypeptide in combination with a second polypeptide comprising a heavy chain of an anti-CCR5 antibody or a portion thereof containing three CDR regions binds to an epitope of CCR5 comprising amino acid residues in (1) an N-terminus of CCR5, (2) one of three extracellular loop regions of CCR5, or (3) a combination of (1) and (2).

113. (Previously Presented) The nucleic acid of claim 112,

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wherein the sequences of the three CDR regions are identical to the sequences of CDR regions present in monoclonal antibody PA14; and wherein the epitope of CCR5 comprises amino acid residues in (1) an N-terminus of CCR5, and (2) a second extracellular loop region of CCR5.

- 114. (Previously Presented) The nucleic acid of any of claims 110-113, wherein the nucleic acid is RNA, DNA or cDNA.
- 115. (Previously Presented) The nucleic acid of claim 114, wherein the nucleic acid is cDNA.
- 116. (Currently Amended) The nucleic acid of claim 110 or 111, wherein the polypeptide comprises a heavy chain portion of a Fab fragment of an said antibody.
- 117. (Currently Amended) The nucleic acid of claim 110 or 111, wherein the polypeptide comprises a heavy chain portion of a variable domain of an said antibody.
- 118. (Currently Amended) The nucleic acid of claim 110 or 111, wherein the polypeptide comprises a heavy chain portion of a $F(ab')_2$ fragment of an said antibody.
- 119. (Currently Amended) The nucleic acid of claim 110 or 111, wherein the polypeptide is a heavy chain of an said antibody.
- 120. (Currently Amended) The nucleic acid of claim 112 or 113, wherein the polypeptide comprises a light chain portion of a Fab fragment of an said antibody.

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121. (Currently Amended) The nucleic acid of claim 112 or 113, wherein the polypeptide comprises a light chain portion of a variable domain of an said antibody.

- 122. (Currently Amended) The nucleic acid of claim 112 or 113, wherein the polypeptide comprises a light chain portion of a $F(ab')_2$ fragment of an said antibody.
- 123. (Currently Amended) The nucleic acid of claim 112 or 113, wherein the polypeptide is a light chain of an said antibody.
- 124. (Currently Amended) The nucleic acid of claim 110 or 112, wherein each encoded polypeptide is comprised within a polypeptide which is a the single chain of said antibody.
- 125. (Previously Presented) The nucleic acid of claim 110, wherein the nucleic acid is present in a hybridoma selected from the group of hybridomas consisting of PA14 (ATCC Accession No. HB-12610), PA8 (ATCC Accession No. HB-12605), PA9 (ATCC Accession No. HB-12606), PA10 (ATCC Accession No. HB-12607), PA11 (ATCC Accession No. HB-12608), and PA12 (ATCC Accession No. HB-12609).
- 126. (Previously Presented) The nucleic acid of claim 125, wherein the hybridoma is PA14 (ATCC Accession No. HB-12610).
- 127. (Currently Amended) The nucleic acid of claim 125 or 126, wherein the polypeptide comprises a heavy chain portion of a Fab fragment of an said antibody.

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128. (Currently Amended) The nucleic acid of claim 125 or 126, wherein the polypeptide comprises a heavy chain portion of a variable domain of an said antibody.

- 129. (Currently Amended) The nucleic acid of claim 125 or 126, wherein the polypeptide comprises a heavy chain portion of a $F(ab')_2$ fragment of an said antibody.
- 130. (Currently Amended) The nucleic acid of claim 125 or 126, wherein the polypeptide is a heavy chain of an said antibody.
- 131. (Previously Presented) The nucleic acid of claim 112, wherein the nucleic acid is present in a hybridoma selected from the group of hybridomas consisting of PA14 (ATCC Accession No. HB-12610), PA8 (ATCC Accession No. HB-12605), PA9 (ATCC Accession No. HB-12606), PA10 (ATCC Accession No. HB-12607), PA11 (ATCC Accession No. HB-12608), and PA12 (ATCC Accession No. HB-12609).
- 132. (Previously Presented) The nucleic acid of claim 131, wherein the hybridoma is PA14 (ATCC Accession No. HB-12610).
- 133. (Currently Amended) The nucleic acid of claim 131 or 132, wherein the polypeptide comprises a light chain portion of a Fab fragment of an said antibody.
- 134. (Currently Amended) The nucleic acid of claim 131 or 132, wherein the polypeptide comprises a light chain portion of a variable domain of an said antibody.

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135. (Currently Amended) The nucleic acid of claim 131 or 132, wherein the polypeptide comprises a light chain portion of a $F(ab')_2$ fragment of an said antibody.

- 136. (Currently Amended) The nucleic acid of claim 131 or 132, wherein the polypeptide is a light chain of an said antibody.
- 137. (Currently Amended) The nucleic acid of claim 125 or 131, wherein each encoded polypeptide is comprised within a polypeptide which is a the single chain of said antibody.